DEVELOPMENT OF PLAYGROUND AT JUDICIAL LAYOUT IN WARD No. 4.

Quality Control Reports

Second & Part Bill

(Book No – 02)

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Development of Play ground at Judicial Layout in Ward No.04

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	PCC(M15)	Compressive Strength(7days and 28days)	2 set /1-15 cum	5.4	4	4
7	RCC(M25)	Compressive Strength(7days and 28days)	7 set /31-100 cum	36.06	14	14

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ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪವಲಯ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-09-01-01 **Date: 04-04-2022**

Project Name : Development of Play ground at Judicial Layout in Ward No.04

Agency : M/S S.M.L.P Asphalts Prop. B B Umesh, No.385, Bettahalasuru Post, Bangalore North

Customer's Reference : EE(YNK.D)E-PMT-8/W O/62/2018-19

Date of Receipt : 01-04-2022

Sample Type : Birla Super 53grade

Reference to BIS codes :
IS 12269 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 01-04-2022

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.18	–
2	Finess by Air permeablity method (m^2/kg.Min)	289.7	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜ.ನ.ಪ. ಬೆಂಗಳೂರು-10

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-01-01** **Date: 29-04-2022**
Project Name	:	Development of Play ground at Judicial Layout in Ward No.04
Agency	:	M/S S.M L.P Asphalts Prop. B.B Umesh, No 385, Bettahalasuru Post, Bangalore North.
Customer's Reference	:	EE(YNK D)E-PMT-8/W.O/62/2018-19
Date of Receipt	:	01-04-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	01-04-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-01-01** **Date: 04-04-2022**
Project Name	:	Development of Play ground at Judicial Layout in Ward No.04
Agency	:	M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North.
Customer's Reference	:	EE(YNK.D)E-PMT-8/W.O/62/2018-19
Date of Receipt	:	01-04-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-04-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	202	202	1.3	98.7	90-100
3	20 mm	6748	6950	46.3	53.7	30-70
4	10 mm	5122	12072	80.5	19.5	10-35
5	4.75 mm	2425	14497	96.6	3.4	0-5
6	Pan	503	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-01-01** **Date: 04-04-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.25	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-01-01** **Date: 04-04-2022**
Project Name	:	Development of Play ground at Judicial Layout in Ward No.04
Agency	:	M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North.
Customer Reference	:	EE(YNK.D)E-PMT-8/W.O/62/2018-19
Date of Receipt	:	01-04-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-04-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	3358	3603	72.1	27.9	25-55
4	4.75 mm	1244	4847	96.9	3.1	0-10
5	Pan	153	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-01-01** **Date: 04-04-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.74	_
5	Bulk Density(Compacted) (Kg/l)	1.79	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	21.9	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-09-01-01** **Date: 04-04-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.22	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	8.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-01-01 Date: 13/04/2022

Project Name : Development of Play ground at Judicial Layout in Ward No.04

Agency : M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North.

Customer's Reference : EE(YNK.D)E-PMT-8/W.O/62/2018-19

Date of Receipt : 08-04-2022

Customer ID : PCC For Steps

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 13/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC For Steps	M15	06/04/2022	13/04/2022	149.62 X 149.90 X 149.23	22429	9.013	278.3	12.4	12.5
2	PCC For Steps	M15	06/04/2022	13/04/2022	149.51 X 151.63 X 151.71	22671	8.847	279.8	12.3	
3	PCC For Steps	M15	06/04/2022	13/04/2022	151.12 X 151.82 X 151.82	22944	8.323	291.1	12.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-01-01 Date: 04/05/2022

Project Name : Development of Play ground at Judicial Layout in Ward No.04

Agency : M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North

Customer's Reference : EE(YNK.D)E-PMT-8/W.O/62/2018-19

Date of Receipt : 08-04-2022

Customer ID : PCC For Steps

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 04/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC For Steps	M15	06/04/2022	04/05/2022	149.17 X 150.14 X 150.38	22395	8.685	390.4	17.4	17.4
2	PCC For Steps	M15	06/04/2022	04/05/2022	151.20 X 150.81 X 150.16	22804	8.994	390.6	17.1	
3	PCC For Steps	M15	06/04/2022	04/05/2022	149.81 X 150.26 X 151.43	22511	8.515	397.9	17.7	

* The results obtained are satisfactory as per standard requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-01-01 Date: 18/04/2022

Project Name : Development of Play ground at Judicial Layout in Ward No.04

Agency : M/S S.M.L.P Asphalts Prop. B.B Umesh, No 385, Bettahalasuru Post, Bangalore North.

Customer's Reference : EE(YNK.D)E-PMT-8/W.O/62/2018-19

Date of Receipt : 13-04-2022

Customer ID : Easternside - Column Footing

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 18/04/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Easternside - Column Footing	M25	11/04/2022	18/04/2022	149.41 X 149.95 X 149.22	22405	8.923	533.8	23.8	22.8
2	Easternside - Column Footing	M25	11/04/2022	18/04/2022	149.22 X 150.36 X 150.60	22436	8.655	503.0	22.4	
3	Easternside - Column Footing	M25	11/04/2022	18/04/2022	149.18 X 151.09 X 151.71	22540	8.947	498.1	22.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-09-01-01
Project Name	:	Development of Play ground at Judicial Layout in Ward No.04
Agency	:	M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North.
Customer's Reference	:	EE(YNK D)E-PMT-8/W.O/62/2018-19
Date of Receipt	:	13-04-2022
Customer ID	:	Easternside - Column Footing
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/05/2022

Date: 09/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Easternside - Column Footing	M25	11/04/2022	09/05/2022	150.60 X 149.86 X 150.25	22569	8.784	626.6	27.8	27.5
2	Easternside - Column Footing	M25	11/04/2022	09/05/2022	151.76 X 151.73 X 149.08	23027	8.381	612.9	26.6	
3	Easternside - Column Footing	M25	11/04/2022	09/05/2022	150.68 X 150.33 X 149.57	22652	8.126	638.0	28.2	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ıb ID	:	CP-2022-09-01-01 **Date: 19/04/2022**
oject Name	:	Development of Play ground at Judicial Layout in Ward No.04
gency	:	M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North
stomer's Reference	:	EE(YNK.D)E-PMT-8/W.O/62/2018-19
te of Receipt	:	14-04-2022
stomer ID	:	Easternside - Gallery Footing
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M25 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
te of test	:	19/04/2022

.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Easternside - Gallery Footing	M25	12/04/2022	19/04/2022	151.60 X 150.34 X 150.98	22791	8.380	541.1	23.7	23.0
	Easternside - Gallery Footing	M25	12/04/2022	19/04/2022	150.76 X 151.48 X 149.00	22837	8.813	512.9	22.5	
	Easternside - Gallery Footing	M25	12/04/2022	19/04/2022	149.49 X 149.87 X 150.75	22404	8.440	507.7	22.7	

: results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2022-09-01-01 **Date: 23/04/2022**

roject Name : Development of Play ground at Judicial Layout in Ward No.04

gency : M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North.

ustomer's Reference : EE(YNK.D)E-PMT-8/W.O/62/2018-19

ate of Receipt : 18-04-2022

ustomer ID : Easternside - Pedestal Upto Ground Level

mple Type /Size : 150X150X150 mm

mple grade/Age : M25 / 7 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

te of test : 23/04/2022

L. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Easternside - Pedestal Upto Ground Level	M25	16/04/2022	23/04/2022	151.12 X 150.61 X 151.45	22760	8.590	542.3	23.8	23.1
	Easternside - Pedestal Upto Ground Level	M25	16/04/2022	23/04/2022	151.00 X 150.16 X 151.33	22674	8.485	521.0	23.0	
	Easternside - Pedestal Upto Ground Level	M25	16/04/2022	23/04/2022	150.47 X 151.33 X 149.99	22771	8.472	515.4	22.6	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-01-01 **Date: 29/04/2022**

Project Name : Development of Play ground at Judicial Layout in Ward No.04

Agency : M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North.

Customer's Reference : EE(YNK.D)E-PMT-8/W.O/62/2018-19

Date of Receipt : 25-04-2022

Customer ID : Easternside - Pedestal Above Ground Level

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Easternside - Pedestal Above Ground Level	M25	22/04/2022	29/04/2022	150.49 X 151.98 X 151.77	22871	8.282	527.0	23.0	22.6
2	Easternside - Pedestal Above Ground Level	M25	22/04/2022	29/04/2022	149.98 X 150.73 X 150.19	22606	8.283	510.2	22.6	
3	Easternside - Pedestal Above Ground Level	M25	22/04/2022	29/04/2022	149.41 X 150.14 X 150.13	22432	8.106	497.7	22.2	

The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date. BANGALORE

****End of Report****

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-01-01 Date: 20/05/2022

Project Name : Development of Play ground at Judicial Layout in Ward No.04

Agency : M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North.

Customer's Reference : EE(YNK.D)E-PMT-8/W.O/62/2018-19

Date of Receipt : 25-04-2022

Customer ID : Easternside - Pedestal Above Ground Level

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Easternside - Pedestal Above Ground Level	M25	22/04/2022	20/05/2022	150.23 X 149.00 X 151.97	22385	9.012	606.4	27.1	27.5
2	Easternside - Pedestal Above Ground Level	M25	22/04/2022	20/05/2022	150.28 X 151.88 X 150.24	22826	8.870	613.0	26.9	
3	Easternside - Pedestal Above Ground Level	M25	22/04/2022	20/05/2022	149.69 X 149.67 X 150.54	22405	8.400	636.9	28.4	

The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/05/2022

ab ID	:	CP-2022-09-01-01
roject Name	:	Development of Play ground at Judicial Layout in Ward No.04
gency	:	M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North.
ustomer's Reference	:	EE(YNK.D)E-PMT-8/W.O/62/2018-19
ate of Receipt	:	27-04-2022
ustomer ID	:	Easternside - Column Upto Ground level
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M25 / 7 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
ate of test	:	02/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Easternside - Column Upto Ground level	M25	25/04/2022	02/05/2022	150.36 X 150.68 X 151.72	22656	8.326	538.6	23.8	23.0
2	Easternside - Column Upto Ground level	M25	25/04/2022	02/05/2022	150.15 X 149.54 X 151.21	22455	8.588	506.1	22.5	
3	Easternside - Column Upto Ground level	M25	25/04/2022	02/05/2022	151.98 X 149.05 X 149.45	22652	9.077	516.3	22.8	

The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2022-09-01-01 **Date: 05/05/2022**

roject Name : Development of Play ground at Judicial Layout in Ward No.04

gency : M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North

ustomer's Reference : EE(YNK.D)E-PMT-8/W.O/62/2018-19

ate of Receipt : 30-04-2022

ustomer ID : Gallery Treads & Risers- Easternside

ample Type /Size : 150X150X150 mm

ample grade/Age : M25 / 7 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

ate of test : 05/05/2022

il. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Gallery Treads & Risers- Easternside	M25	28/04/2022	05/05/2022	150.41 X 150.60 X 149.37	22651	8.954	522.2	23.1	22.5
	Gallery Treads & Risers- Easternside	M25	28/04/2022	05/05/2022	151.56 X 149.87 X 151.06	22715	8.189	500.8	22.0	
	Gallery Treads & Risers- Easternside	M25	28/04/2022	05/05/2022	150.75 X 149.94 X 149.21	22603	8.183	507.2	22.4	

e results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/05/2022

Lab ID	:	CP-2022-09-01-01
Project Name	:	Development of Play ground at Judicial Layout in Ward No.04
Agency	:	M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North.
Customer's Reference	:	EE(YNK.D)E-PMT-8/W.O/62/2018-19
Date of Receipt	:	30-04-2022
Customer ID	:	Gallery Treads & Risers- Easternside
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	26/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Gallery Treads & Risers- Easternside	M25	28/04/2022	26/05/2022	151.97 X 149.06 X 149.56	22652	9.049	621.0	27.4	27.4
2	Gallery Treads & Risers- Easternside	M25	28/04/2022	26/05/2022	150.24 X 150.07 X 151.58	22546	8.403	588.3	26.1	
3	Gallery Treads & Risers- Easternside	M25	28/04/2022	26/05/2022	150.78 X 149.50 X 149.56	22542	8.111	649.2	28.8	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2022-09-01-01 **Date: 30/05/2022**
ject Name	:	Development of Play ground at Judicial Layout in Ward No.04
ncy	:	M/S S.M.L.P Asphalts Prop. B.B Umesh, No.385, Bettahalasuru Post, Bangalore North
tomer's Reference	:	EE(YNK.D)E-PMT-8/W.O/62/2018-19
e of Receipt	:	04-05-2022
tomer ID	:	Gallery Treads & Risers- Easternside
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M25 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
e of test	:	30/05/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Gallery Treads & Risers- Easternside	M25	02/05/2022	30/05/2022	151.02 X 151.33 X 150.48	22854	8.988	627.5	27.5	27.5
	Gallery Treads & Risers- Easternside	M25	02/05/2022	30/05/2022	150.53 X 150.15 X 149.85	22602	8.967	605.8	26.8	
	Gallery Treads & Risers- Easternside	M25	02/05/2022	30/05/2022	151.90 X 151.13 X 150.06	22957	8.739	648.4	28.2	

ic results obtained are satisfactory as per standard requirements.

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